



NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06
SEQUENCE LISTING

<110> Viney, Joanne L.

Sims, John E.

DuBose, Robert F.

Hasel, Karl W.

Hilbush, Brian S.

Buchner, Robert R.

<120> Gene Expression Modulated In Gastrointestinal Inflammation

<130> 99,104-A

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<140> PCT/US 00/15973

OFFICE OF PETITIONS

<141> 2000-06-09

<150> 60/138,487

<151> 1999-06-12

<160> 129

<170> PatentIn version 3.1

<210> 1

<211> 270

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_4

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tgctgttgtt gtttctagat agggtctcac tgtgttagccc tggctttct ggaactcact 180
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<210> 2

<211> 964

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_4 Extended Sequence

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cgaatgagga ccactttatc cagttccctc cctccactg ccagaggctg cacatctgtc 480
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<210> 3

<211> 192

<212> DNA

<213> *Mus musculus*

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<221> misc_feature

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ctaccccaaa aa 192

<210> 4

<211> 183

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_22

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aaa 183

<210> 5

<211> 115

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<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_28

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<211> 135

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_36

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aagacagagc aaaaa 135

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<211> 474

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_36 Extended Sequence

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ccagatgcct actcaacaag ccctctctgg gatcaggact cccgttggaa tacagatcca 360
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<210> 8

<211> 221

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_43

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ggttttgaag gaagtatatg aaaactgtgc ctcagaagcc aatgacagga cacatgactt 180
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<212> DNA

<213> *Mus musculus*

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cttggaaatc agcactatgg ctaacgtctc tggggat gtaacctata cagtacgg 180
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gactaaagtc aacatgcagg tcctcatcgt cgtcaatcgc acagcctcaa agtcatccgt 420
gaaaatggaa caagtacaac ctcagcctc aaccctatt cctgagagtt ctgagaccag 480
ccagaccata aacacgactc caactgtgaa cacagccaag actacagcca aggacacagc 540
caacaccaca gccgtgacca cagccatac cacagccat accacagccg tgaccacagc 600
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<210> 10

<211> 407

<212> DNA

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<220>

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ctgaagatga	gctgtgaata cgtgagcttggcttgcggcttgcgtgtcaaccttggaaagac	180
cctgatttc	atgattacat caatattcctt gacccatctc atctccctatctatgtccca	240
gggcccagat	cttcatgcca atgagttcttgcgtttgtctatgtcttagc acgttttctt	300
tataggatcc	ctgtcatggc gtatgtccta taccctaagt cgactctcac ctgactatctt	360
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<210> 11

<211> 655

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_46 Extended sequence

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gccgcgcctg	cagaacaacg tctacagcgc ctgccccgg cgccacacgg gaccagacag	180
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gcaggtactt	gaagctcctt ggccccacac cccatctctt aagatgagct gtgaatacgt	300
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<210> 12

<211> 337

<212> DNA

<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_48

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ttcaagaaca tccagagctt gagtgtgacg cccccaggac cccaytgcgc ccagacagaa 180
gtcatagcca ctctcaaggg cggtaaaaaa gtttgccctg accctgaagc cccccctggtt 240
cagaaaatca tccaaaagat wctgaacaaa ggcaaggcta actgacctgg aaaggaggag 300
cctgggctgc tgtccctcaa cggaagaacc ataaaaaa 337

<210> 13

<211> 414

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_55

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tcactctagg acaagagcag gattcctatg gggaaattt tcatgcaag caatccttg 180
ttggggagat atgggatgtt tccttgtgg accatgtggt cccccctagaa aaggtatcag 240
acagctgtaa caatggcaac cttataaact ggcaagctct taattatgaa gacaatggct 300
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<210> 14

<211> 797

<212> DNA

<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_55 Extended sequence

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gtccctgata ccgaaggtga ggaagtcact gcagaacttc actctgtgta tgaaggcctt 180

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cattttcaaa gcacccacaa atcttcctga tccagtcgt atctgtgtga actgggagtc 360

tgtctctggg attgcagaat tctggctgaa tggaaaacca ctggggagga aaggtttga 420

taagggatac acgggtgggg gtgatgcaat gatcattata ggacaagagc aggattcctt 480

tggggaaat tttgatgcaa agcaatcctt tggtggggag atatggatg tttccttgc 540

ggaccatgtg gtccccctag aaaaggtatc agacagctgt aacaatggca accttataaa 600

ctggcaagct cttaattatg aagacaatgg ctatgtggtg attaagccca aactgtggcc 660

ttaagctaat tgctctatga aatataagtc tgctttggc tctgttaaaa tgataatgtg 720

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aaaaaaaaag ggcggcc 797

<210> 15

<211> 125

<212> DNA

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<221> misc_feature

<223> IMX2_57

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aaaaaa 125

<210> 16

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<212> DNA

<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_57 Extended Sequence

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<220>

<221> misc_feature

<222> (5)..(5)

<223> N stands for A, C, G or T

<220>

<221> misc_feature

<222> (48)..(48)

<223> N stands for A, C, G or T

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<222> (84)..(84)
<223> N stands for A, C, G or T

<220>
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<222> (185)..(185)
<223> N stands for A, C, G or T

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tactgggtg cacgcattac cgatgccatg atatgtgcag gtggctcagg cgcctccctca 180
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<210> 17
<211> 223
<212> DNA
<213> *Mus musculus*

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<221> misc_feature
<223> IMX2_61

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<210> 18
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<212> DNA
<213> *Mus musculus*

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<223> IMX2_61 Extended sequence

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<211> 427

<212> DNA

<213> *Mus musculus*

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tgaagtttc aagggtcttc tgcagccagg tacttctcac gtcaatgaat tcgactctga 180

tgtggatgtt ggagatttgc agaaggttaa atttatttgg tacaacaatg tcatcaaccc 240

aactctaccc aaagtgggag catcaaggat cacagtggaa agaaatgtg gcagagtgtt 300

caacttctgt agtcaagaga cagtggaga agacgtcctg ctcacactgt ctccatgtta 360

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ccaaaaaa 427

<210> 20

<211> 180

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_74

<400> 20

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cctttctggc actcccccttc cctctcattg tcttaaacag caatgcttaa caagctagaa 120

atgtgctttc ttgactactg cgtctctgtc aaaccagtaa agttttggag ccaacaaaaa 180

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<210> 21

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<212> DNA

<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_33

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aaacgcattc atttctctat gaaaaaa 147

<210> 22

<211> 124

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_64

<400> 22

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aacaaggat ccctacgaga acgtggggat ggatcacctc ctttctaagg agaaaaacga 120

aaaa 124

<210> 23

<211> 140

<212> DNA

<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_21

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acagttttgtt gaaggaaaaaa 140

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<211> 233

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_49

<400> 24

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acatgatgga ggaatgtgat tcgtcaaaag tttgtcctgc ggtaaagaag aaagagaaaa 120

tcctcaaatc aagctgcatg gactagtttgc tggcttcatt gaggatttca catggtcacg 180

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<210> 25

<211> 209

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_62

<400> 25

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<210> 26

<211> 348

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_5

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ggagaacatt gtgggcgcag tctcctgccc tggtacccca tttcactcac agctccagtg 300
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<210> 27

<211> 310

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_6

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tctggcgag ggccctgcca gctggaacgt cagcccagcg agccgaactg atgcactca 180
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agggcaaaaa 310

<210> 28

<211> 117

<212> DNA

<213> *Mus musculus*

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<221> misc_feature

<223> IMX2_7

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<211> 234

<212> DNA

<213> *Mus musculus*

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<221> misc_feature

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aacacaacga gcgactgcca caaaaaaaaaa agtgcactcg ggatgcacgt ggcatgaaca 180
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<210> 30

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<223> IMX2_11

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<222> (48)..(48)

<223> N stands for A, C, G or T

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agtaccccat gccatccagc aggtcatcaa gtcaggctca gatgagggtgc aggcaaggca		120
gcaacgcaag ttcatcagcc acatcaagtg cagaaacgcc ctgaagctgc agaaaggaa		180
gaagtacctc atgtggggcc tctcctctga cctctggga gaaaagccca acaccagcta		240
catcattggg aaggacacgt gggtgagca ctggcctgag gcggaagaat gccaggatca		300
gaagtaccag aaacagtgcg aagaacttgg ggcattcaca gaatctatgg tggtttatgg		360
ttgtcccaac tgactacagc ccagccctct aataaagctt cagttgtatt tcacacaaaa		420
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<210> 31

<211> 191

<212> DNA

<213> Mus musculus

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<220>

<221> misc_feature

<223> IMX2_12

<400> 31
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ttctcttcct gttgttccca gtcatgctgc ccccccggaaa gaggagcaac tactgggttg 120
agatattttc taaaatctgg atccctaaac atcccaatgt gctgaataaa tacttgtgaa 180
atgcagaaaa a 191

<210> 32

<211> 173

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_13

<400> 32
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gaggatgagg agagctatga cacggagtca gaattcacag aggatgagct gccctatgat 120
gactgtgtgt ttggaggcca gcgtctgaca ttataagtgg aaagtggcaa aaa 173

<210> 33

<211> 311

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_15

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<400> 33
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agcctgagtc agcagattga gaacatccgc agccccgaag gcagccgcaa gaaccctgcc 120
cgcacatgcc gcgacacctcaa gatgtgccac tctgactgga agagcggaga gtactggatc 180
gaccctaacc aaggctgcaa cctggacgcc atcaaggct actgcaacat ggagacaggt 240
cagacctgtg tggccctac tcagccgtct gtgcctcaga agaactggta catcagcccg 300
aaccctaaaa a 311

<210> 34

<211> 138

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_16

<400> 34
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ctgagttcga ggccagtctg gtctataaaag tgagttccag gtcagccagg gctatacaga 120
gaaattctgt cccaaaaa 138

<210> 35

<211> 99

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_20

<400> 35
cgggggtgcc aggtgtgagg ccttaggact ctggctctct gagctcagct cagggttagg 60
gcctcactgg attagaggct ctgctctaca ggataaaaaa 99

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<210> 36

<211> 109

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_23

<400> 36

cggcatggg aactcagtat tattaatgt cacaacatga tttcagaact agatagccct 60

cccacaccaa gaagaatgtg agaggaagta aggtcacttt atgcaaaaa 109

<210> 37

<211> 313

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_24

<400> 37

cggctccat ggcgtccac tagtgtgttc gccatgttgg gataccttct tcccttgaac 60

caaaggaga gatgtggaaa tctgctcctc tgttctccctt tttcagaaaa gcacagaaca 120

aatctacttc agtaaatctc tcatactgccc agccaagtga gggctctgagc tcagccaaacc 180

cctactgtct ctcgagacct cctactctac ttgaaggta gagctgttcc ttcttggac 240

tgtccactcc acctgcccagt caggaccga tccatagcaa atgaaagata cagctcttt 300

gcttacccaa aaa 313

<210> 38

<211> 325

<212> DNA

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<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_25

<400> 38
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ccatctctga aatcgactgg ctgaacctga atgtgtacac ctgccgtgtg gatcacaggg 120
gtctcacctt cttgaagaac gtgtcctcca catgtgctgc cagtcctcc acagacatcc 180
taaccttcac catccccccc tccttgccg acatcttcct cagcaagtcc gctaacctga 240
cctgtctggc ctcaaacctg gcaacctatg aaaccttgga tatctcctgg gcttctcaaa 300
gtggtaacc actggaaacc aaaaa 325

<210> 39

<211> 294

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_26

<400> 39
cggtgccctg tctgctctga gcgacctgca tgcccacaag ctgcgtgtgg atcccgtaa 60
cttcaagctc ctgagccact gcctgctggt gaccttgct agccaccacc ctgcccattt 120
cacccccgcg gtgcatgcct ctctggataa attccttgcc tctgtgagca ccgtgctgac 180
ctccaagtac cgttaagctg cttctgcgg ggcttgcctt ctggccatgc cttcttc 240
tccccctgcac ctgtacacct tggctttga ataaaggctg agtaggaata aaaa 294

<210> 40

<211> 288

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_35

<400> 40	
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gagtgagttg caggacagcc agggctacac aaagaagccc tgtcttgaga gaccaaacc	120
ccaatctaac caaacaaaac caaaaacaaa ccaaaaaaca aaacccaaac aaaacaggtt	180
tttgggaatg gttttagttt cagaacactt gtctaataatg ggcaatgctc tgggttccat	240
ctcagcatta cagaaattaa taaaaacta ttttggcat aataaaaa	288

<210> 41

<211> 172

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_39

<400> 41	
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caatttgttg accaggattt accactccca tgttgatgct ccaaaagata ttgcatcagg	120
actcatagga cctctaatac tctgtaaaaa aggttctcta tataaggaaa aa	172

<210> 42

<211> 39

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_40

<400> 42
cggcattgt a gaacagtgt a tatcaatgag ttacaaaaaa 39

<210> 43

<211> 150

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_42

<400> 43
cggccaaact ctcattacc atagatggag aaaccaaagt attccacgac aaaaccaa 60
tcacacatta tatttccaag aatccagccc ttcaaaggat aataacagga aaaaaaaca 120
tacaaggaca gaaatcatgc cctagaaaaaa 150

<210> 44

<211> 29

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_51

<400> 44
cggtagggta gagtgtcgcc aaggaaaaaa 29

<210> 45

<211> 291

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_52

<400> 45
cggtgtcctg tctgctctga gcgacctgca tgcccacaag ctgcgtgtgg atcccgtaa 60
cctcaagctc ctgagccact gcctgctggt gaccttggct agccaccacc ctgccgattt 120
caccccccgcg gtgcattgcct ctctggataa attccttgcc tctgtgagca ccgtgctgac 180
ctccaagtac cgtaagctg cttctgcgg ggcttgcctt ctggccatgc cttcttctc 240
tcccttgcac ctgtacacct tggctttga ataaaggctg agtaggaaaa a 291

<210> 46

<211> 283

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_53

<400> 46
cggttccat atctttgagg gccctggac cgagggcccg atgaccgcgtt ttttggcaca 60
tcagttgatt gactatcagg tgggtgaagg actctgcctt ttatatccct cacagagcga 120
cactggtcag ctctatgata accctgcca cacttagagc aaagagttag agtccctccc 180
tgtttatctg gagctctgca atcttctta aatgcccag gctttccgca attaaaacat 240
gtcctctgat catttctgct catggagcgg ttctgagatt gga 283

<210> 47

<211> 421

<212> DNA

<213> Mus musculus

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<220>

<221> misc_feature

<223> IMX2_58

<400> 47
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gaaaaccact ggggagggaaa ggcttgaaga agggatacac tgcgtgggggt gatgcaatga 120
tcactctagg acaagagcag gattcctatg gggaaattt tgcgtcaag caatccttg 180
ttggggagat atggatgtt tccttgggg accatgtggt cccctagaa aaggtatcag 240
acagctgtaa caatggcaac cttataaact ggcaagctct taattatgaa gacaatggct 300
atgtggtgac taagccaaa ctgtggcctt aagctaattt ctctatgaaa tataagtctg 360
ctttggttc tggtaaaatg ataatgtgca ttgcattaaa aaagcaaaga aatgtgaaaa 420
a 421

<210> 48

<211> 271

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_59

<400> 48
cggcggcgat atccagtctg gctgcaacgg tgactctgga ggacccctca actgtccgc 60
tgacaatggc acctggcagg tccacgggt gaccagctt gtgtcctcct tgggctgcaa 120
ccccctgagg aagcccacag tggtcacccg tgcgtcagcc ttcattgact ggattgagga 180
gaccattgcc aacaactaga tccaaaggttc ggctggcaga gaggacccccc aggtcctcta 240
aagaataaaag acctttctga aagcctaaaa a 271

<210> 49

<211> 418

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_60

<400> 49	
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ggaaaaccac tggggaggaa aggcttgaag aagggataca ctgtgggggg tgatgcaatg	120
atcactctag gacaagagca ggattcctat gggggaaatt ttgtatgcaaa gcaatccitt	180
gttggggaga tatggatgt ttccttgtgg gaccatgtgg tccccctaga aaaggtatca	240
gacagctgta acaatggcaa ccttataaac tggcaagctc ttaattatga agacaatggc	300
tatgtggtga ctaagcccaa actgtggcct taagctaatt gctctatgaa atataagtct	360
gcttttggtc tgttaaaatg ataatggca ttgcattaaa aaagcaaaga aataaaaa	418

<210> 50

<211> 352

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_1

<400> 50	
cggaaacggg gaccgctggg ggctgcggtg ctgttcatca cggaaattat cattctca	60
agtggaaagt gtaggcagtt gtctcaattt tgcctgaatc gccacaggtg agtgcgggcc	120
agcaccctga tgggcacccc agctggagcc tccaaactac accaactcac caccctgc	180
ctccctccctc taccccaaga gcctacagag tgatcaacat gaaagaatcc taaaaggaag	240
aggccactgg agggagtcag gcttaaggct aatggtcttc ccaccctggg gagagaggtc	300
tcccttaggca ctgctgtggc tgttcagata aatccacatg gtctctcaaa aa	352

<210> 51

<211> 135

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<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_65

<400> 51
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tggcaaaata gtgagaagat ttttaggtag aggtgaaaag cctaacgagc ttggtgatag 120
ctggttaccc aaaaa 135

<210> 52

<211> 186

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_66

<400> 52
cggacggagg accacccgtg ccagaagtgt ggccacaagg aggcaagtgtt ctttcagtca 60
cacagtgcgg gagctgagga cgccatgcgc ctgtactatg tttgcactgc cccacactgc 120
ggccaccgct ggactgagtg atcgttcctt cttccacctg taataaatgc cagtttctac 180
taaaaa 186

<210> 53

<211> 216

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_68A

<400> 53

cggccgccac ccaacaactt tgtacatttc tcattctgta gcgttgtca tgaaattgct	60
tctccagtc aacccgcctg atgtacatct actatccca ggagagtctg ctcccagaca	120
ctctgcctt ccctccaaaa ccctctca cccagctcgt gcaaactggt tacacagcag	180
aaacgcaaaa taaagaggtg gcttcgcgg caaaaa	216

<210> 54

<211> 216

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_68B

<400> 54

cggccgcccag cagaggtccg aaagaagccg agtgagggtg aagaggaggc agcctcagct	60
ggaggacccc aggttaaccc aatgccagtg acagatgagg tcgtgtgacc ttcagtggct	120
gtctacagct cctgcttgag tttctgtgga gttgtccccc cccccccagg gtggtgttgc	180
tcactgtaat aaacatgatt aatagctggc taaaaaa	216

<210> 55

<211> 100

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<223> IMX2_69

<400> 55

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cggccgtgtg tgccgttagga gtggaaaact ttgcatttct ctctccttat ccttcttgta 60
agacatccat ttaataaaagt ctcatgctga gagccaaaaa 100

<210> 56
<211> 312
<212> DNA
<213> *Mus musculus*

<220>
<221> misc_feature
<223> IMX2_71

<400> 56
cgggcatcca tgggttccaa ctgccactgc cccagtcttg gccagagata cccctcctgc 60
ctgactggaa gctgcacatc tgcccactga gctttggta aaggtccaga ggctttgggg 120
acctctgttc ctgggccacc ctgcccgtgg gcaccctcta ccttggggca cgttctagca 180
ccccattcct gactcctgga agatgcactt gccccgacag ctgggcagca cggctgtcct 240
ctgcagagac tgcctggtcc tcattgtact ttggtggctc aactgaataa agccttgg 300
gaagcacaaaa aa 312

<210> 57
<211> 374
<212> DNA
<213> *Mus musculus*

<220>
<221> misc_feature
<223> IMX2_72

<400> 57
cgggctcaac cgctgtgaagg tttcccaggc agctgcagac ttgaaacagt tctgtccgca 60
gaatgctcaa catgaccctc tgctgactgg agtgtcttca agtacgaatc ctttcagacc 120
ccagaaagtc tgctccttt tgtagtcatc tatcttgagg tttctcaaac cactttcat 180
gaaccagtga atattcaaga gaactaaatt tgaagtctgt acaaaagctt ctctttaaca 240

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cgtgccataa tacactatct tctgctcgac agtccttaac atctacacct ctgaatttca 300
tggatttctg tctcacaagg tttaactatt ttatatacac tggctgttagc atacaataaa 360
gcatcatcca aaaa 374

<210> 58

<211> 251

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_73

<400> 58
cggttaagcat ggcaagaccc gcaagttcac cgcgggttct taccctcgcc tggaagagta 60
ccgcaaaaggc atctttggag actggtccga ctccatctct gccctctact gcaagtgcta 120
ttgatgcctt gaggctctgt ctacccagcc tggccttggg aattgctgta gctccaagag 180
ccaggaggca agatgacccc acgacacctgct ctcatagctt ccctgtaata cagcccttcc 240
aaaggtaaaa a 251

<210> 59

<211> 248

<212> DNA

<213> *Mus musculus*

<220>

<221> misc_feature

<223> IMX2_2

<400> 59
cggaacgcca aggaggcaga tgtgtcactc acagccttcg tcctcatcgc actgcaggaa 60
gccaggagaca tctgtgaggg gcaggtcaat agccttcctg ggagcatcaa caaggcaggg 120
gagtatattg aagccagtta catgaacctg cagagaccat acacagtggc cattgctggg 180

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tatgccctgg ccctgatgaa caaactggag gaaccttacc tcggcaagtt tctgaacaca 240
gccaaaaa 248

<210> 60
<211> 64
<212> DNA
<213> *Mus musculus*

<220>
<221> misc_feature
<223> IMX2_3

<400> 60
cggaatggga gcggggccgt gacacccagc tagggcaca aaaa 60
aaaa 64

<210> 61
<211> 121
<212> DNA
<213> *Mus musculus*

<220>
<221> misc_feature
<223> IMX2_34

<400> 61
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gcctcgctgg atgaggggct ctgctctaca gggtaaataa aagaaaagct ttttgacagc 120
c 121

<210> 62
<211> 219
<212> DNA
<213> *Mus musculus*

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<220>

<221> misc_feature

<223> IMX2_70

<400> 62 cgggcata atggccagtg gcaggtgcat ggcatacgta gcttcggctc ctctctggc 60
tgcaactacc cccgcaagcc atccgtcttc accagggtct ccaactacat tgactggatc 120
aactcggtga tggcaaggaa ctaactgaag acattactgc cactgtcccc ctggaaatgc 180
catagaaaag aaatagtaat aaagtaatta aagaatcac 219

<210> 63

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<220>

<221> misc_feature

<222> (46) .. (46)

<223> v stands for A, C or G

<220>

<221> misc_feature

<222> (47)..(48)

<223> N stands for A, C, G or T

<400> 63 gaattcaact ggaagcggcc gcaggaattt tttttttttt ttttvnn 48

<210> 64

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 64

aggtaacgtt tatcggt

16

<210> 65

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<220>

<221> misc_feature

<222> (16)..(16)

<223> N stands for A, C, G or T

<400> 65

ggtaacgtt atcggt

16

<210> 66

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 66

gagctccacc gcgtt

15

<210> 67

<211> 16

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<220>

<221> misc_feature

<222> (13)..(16)

<223> N stands for A, C, G or T

<400> 67

cgacggtatac ggnnnn

16

<210> 68

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 68

cgacggtatac ggcgcg

16

<210> 69

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 69

gatcgaatcc ggatacagca gcagctgggc

30

<210> 70

<211> 30

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 70

gatcgaatcc gggctctggg tctattgttc

30

<210> 71

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 71

gatcgaatcc ggggggtgcca ggtgtgaggc

30

<210> 72

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 72

gatcgaatcc ggtcatggga actcagtatt

30

<210> 73

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 73
gatcgaatcc ggtgccctgt ctgctctgag 30

<210> 74

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 74
gatcgaatcc ggctccctgt atcccaggct 30

<210> 75

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 75
gatcgaatcc gggggtgcca ggtgtgaggc 30

<210> 76

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 76
gatcgaatcc ggataacagt atgtgtatgt 30

<210> 77

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 77

gatcgaatcc ggccaaactc tcaattacca

30

<210> 78

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 78

gatcgaatcc ggcgcgacg gggaccagac

30

<210> 79

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 79

gatcgaatcc ggtgtcctgt ctgctctgag

30

<210> 80

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 80

gatcgaatcc ggaaaccccg aaaccaaacg

30

<210> 81

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 81

gatcgaatcc ggacggagga ccacccgtgc

30

<210> 82

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 82

gatcgaatcc ggccgtgtgt gccgttaggag

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<210> 83

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 83

gatcgaatcc gggcatctaa tggccagtgg

30

<210> 84

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 84

gatcgaatcc gggcatccat gggttccaac

30

<210> 85

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 85

gatcgaatcc ggacaccata gagaccctga

30

<210> 86

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 86

gatcgaatcc ggagcaccac atcgatctaa

30

<210> 87

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 87
gatcgaatcc gggcgatgg ggtgtatgcc 30

<210> 88

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<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 88
gatcgaatcc ggtactgggg aggcacaggg 30

<210> 89

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 89
gatcgaatcc gggatgtggg aaggtagaa 30

<210> 90

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 90
gatcgaatcc ggtaggtag agtgtcgcca 30

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<211> 30

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 91

gatcgaatcc gggtccata tctttgaggg

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<210> 92

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 92

gatcgaatcc ggcgatgtac actcgggtca

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<210> 93

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<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 93

gatcgaatcc ggccgtatc tgtgtgaact

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<210> 94

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 94

gatcgaatcc ggccggcgata tccagtcgtgg

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<210> 95

<211> 30

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 95

gatcgaatcc ggtcctggca gacagacatg

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<210> 96

<211> 30

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 96

gatcgaatcc ggtgataaga gcaacttcgc

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<210> 97

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 97

gatcgaatcc ggccggccacc caacaacttt

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<210> 98

<211> 30

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 98

gatcgaatcc ggccgccccgc agaggtccga

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<210> 99

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

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gatcgaatcc ggtaaggcatg gcaagacccg

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<210> 100

<211> 25

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

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cacagccttc gtcctcatcg cactg

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<210> 101

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 101
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<210> 102

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 102
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<210> 103

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 103
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21

<210> 104

<211> 22

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 104
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<210> 105

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 105

tggtctccac tgtagaaccc ccaaaa

26

<210> 106

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 106

acatagagct gttggatgat tttga

25

<210> 107

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 107

caagttcttc gcactgtttc tggta

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<210> 108

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 108

cgacacctcaag atgtgccact ctga

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<210> 109

<211> 25

<212> DNA

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<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 109

accagttctt ctgaggcaca gacgg

25

<210> 110

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 110

gaacaaagga tccacacccaaacc

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<210> 111

<211> 25

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<223> Description of Artificial Sequence: synthetic primer

<400> 111

gcacatgtgg aggacacgtt cttca

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<210> 112

<211> 25

<212> DNA

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<223> Description of Artificial Sequence: synthetic primer

<400> 112

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25

<210> 113

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

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24

<210> 114

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 114

gcccgacag aagtcatagc cactc

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<210> 115

<211> 25

<212> DNA

<213> Artificial Sequence

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NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06
<223> Description of Artificial Sequence: synthetic primer

<400> 115
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<210> 116

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 116
gagtctggct ctgggattgc agaa 24

<210> 117

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 117
cccccatagg aatcctgctc ttgt 24

<210> 118

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 118
ccactgggga ggaaaggctt gaa 23

<210> 119

<211> 25

NEU-120.P.1, Sequence Listing FILED, MS, 1-23-06

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 119

ccacatggtc ccacaaggaa acatc

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<210> 120

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 120

gcaggtgcat ggcatcgtga

20

<210> 121

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 121

ggggacagtg gcagtaatgt cttca

25

<210> 122

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 122
tcagagatta gcatgggtggg aca

23

<210> 123

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 123
ctggtttgac agagacgcag tagtc

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<210> 124

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 124
gatcgaatcc ggaaacgggg accgctggtg

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<210> 125

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic primer

<400> 125
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30

<210> 126

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 126

gatcgaatcc ggagtggcaa agaccccaac

30

<210> 127

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 127

cagtgtggag gaagcctggg aggtg

25

<210> 128

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

<400> 128

cacatcgggg gcaggcagac ttcc

24

<210> 129

<211> 137

<212> PRT

<213> Mus musculus

<220>

<221> misc_feature

<223> Translation of IMX2_4 Extended Sequences, bases 688-947

<400> 129

Gly Trp Gln Gly Ala Pro Asp Pro Arg Gly Leu Gly Gln Leu Ser Gln
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Pro Tyr Met Gly Gly Glu Met Pro Trp Thr Ile Leu Leu Phe Ala Ser
20 25 30

Val Pro Thr Trp Ile Leu Ala Leu Ser Leu Ser Leu Ala Gly Ala Val
35 40 45

Leu Phe Ser Gly Leu Val Ala Ile Thr Val Leu Val Arg Lys Ala Lys
50 55 60

Ala Lys Asn Leu Gln Lys Gln Arg Glu Arg Glu Ser Cys Trp Ala Gln
65 70 75 80

Ile Asn Phe Thr Asn Thr Asp Met Ser Phe Asp Asn Ser Leu Phe Ala
85 90 95

Ile Ser Thr Lys Met Thr Gln Glu Asp Ser Val Ala Thr Leu Asp Ser
100 105 110

Gly Pro Arg Lys Arg Pro Thr Ser Ala Ser Ser Ser Pro Glu Pro Pro
115 120 125

Glu Phe Ser Thr Phe Arg Ala Cys Gln
130 135